

\$%^STN;HighlightOn= ***;HighlightOff=*** ;

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	4	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS	5	APR 28	IMSRESEARCH reloaded with enhancements
NEWS	6	MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS	7	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS	8	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS	9	JUN 06	KOREAPAT updated with 41,000 documents
NEWS	10	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	11	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	12	JUN 25	CA/CAPplus and USPAT databases updated with IPC reclassification data
NEWS	13	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS	14	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS	15	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS	16	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS	17	JUL 28	CA/CAPplus patent coverage enhanced
NEWS	18	JUL 28	EPFULL enhanced with additional legal status information from the epline Register
NEWS	19	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS	20	JUL 28	STN Viewer performance improved
NEWS	21	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS	22	AUG 13	CA/CAPplus enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS	23	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	24	AUG 15	CAPplus currency for Korean patents enhanced
NEWS	25	AUG 25	CA/CAPplus, CASREACT, and IFI and USPAT databases enhanced for more flexible patent number searching
NEWS	26	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence

information

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:37:38 ON 08 SEP 2008

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:37:51 ON 08 SEP 2008
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STRUCTURE FILE UPDATES: 7 SEP 2008 HIGHEST RN 1047406-12-1
DICTIONARY FILE UPDATES: 7 SEP 2008 HIGHEST RN 1047406-12-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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REGISTRY includes numerically searchable data for experimental and
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on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\STNEXP\Queries\10542351.str

L1 STRUCTURE UPLOADED

```
=> d l1
L1 HAS NO ANSWERS
L1          STR
/ Structure 1 in file .gra /
```

Structure attributes must be viewed using STN Express query preparation.

```
=> s l1
SAMPLE SEARCH INITIATED 10:38:13 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      105 TO ITERATE

100.0% PROCESSED      105 ITERATIONS      0 ANSWERS
SEARCH TIME: 00.00.01
```

```
FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   1486 TO    2714
PROJECTED ANSWERS:      0 TO      0
```

```
L2          0 SEA SSS SAM L1
```

```
=> s l1 sss ful
FULL SEARCH INITIATED 10:38:23 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      2279 TO ITERATE

100.0% PROCESSED      2279 ITERATIONS      2 ANSWERS
SEARCH TIME: 00.00.01
```

```
L3          2 SEA SSS FUL L1
```

```
=> file cap
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                                ENTRY    SESSION
FULL ESTIMATED COST          178.36    178.57
```

FILE 'CAPLUS' ENTERED AT 10:38:26 ON 08 SEP 2008
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FILE COVERS 1907 - 8 Sep 2008 VOL 149 ISS 11
FILE LAST UPDATED: 7 Sep 2008 (20080907/ED)

Caplus now includes complete International Patent Classification (IPC)

reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s 13

L4 2 L3

=> d 14 1-2 ibib abs hitstr

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:633527 CAPLUS <<LOGINID::20080908>>

DOCUMENT NUMBER: 141:174078

TITLE: Preparation of thienylpyridinecarbonitriles as
bacterial enoyl-ACP reductase (FabI) inhibitors.

INVENTOR(S): Moir, Donald T.; Xiang, Yibin; Arvanites, Anthony C.;
Ali, Syed Masarrat; Geng, Bolin; Ashwell, Mark A.;
Orgueira, Hernan Antonio

PATENT ASSIGNEE(S): Genome Therapeutics Corporation, USA; Arqule

SOURCE: PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 2004064837	A1	20040805	WO 2004-US1327	20040116
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
US 20070027190	A1	20070201	US 2006-542351	20060807
PRIORITY APPLN. INFO.:			US 2003-441411P	P 20030117
			WO 2004-US1327	W 20040116
OTHER SOURCE(S):	MARPAT	141:174078		
GI				

/ Structure 2 in file .gra /

AB Title compds. I [R1, R2 = (un)substituted monocyclic aryl, heteroaryl; Y = X1-X2; X1 = bond, (un)substituted alkylene; X2 = aryl, heteroaryl, cycloaliph., etc.] and their pharmaceutically acceptable salts were prepd. For example, condensation-annulation of 1,3-di-2-thienyl-2-propen-1-one and 2-cyanoethanethioamide, followed by 4-(bromomethyl)benzoic acid S-alkylation of the resulting thioxopyridinecarbonitrile (no data provided), afforded claimed thienylpyridinecarbonitrile II. In methicillin-resistant Staphylococcus aureus minimal inhibitory concn. (MIC) assays, 14-examples of compds. I exhibited MIC values ranging from 0.75->64 .mu.g/mL, e.g., the MIC value of thienylpyridinecarbonitrile II

was 4 .mu.g/mL. Compds. I are claimed useful for the. Of note, compds. I are proposed to inhibit bacterial enoyl-ACP reductase (FabI), a NADH-dependent enoyl [acyl carrier protein] reductase enzyme in the fatty acid biosynthesis pathway.

IT ***340808-61-9P***

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of thienylpyridinecarbonitriles as bacterial enoyl-ACP reductase (FabI) inhibitors.)

RN 340808-61-9 CAPLUS

CN Benzoic acid, 4-[[(3-cyano-4,6-di-2-thienyl-2-pyridinyl)thio]methyl]- (CA INDEX NAME)

/ Structure 3 in file .gra /

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:374624 CAPLUS <<LOGINID::20080908>>

DOCUMENT NUMBER: 141:239652

TITLE: Identification and characterization of inhibitors of bacterial enoyl-acyl carrier protein reductase

AUTHOR(S): Ling, Losee L.; Xian, Jun; Ali, Syed; Geng, Bolin; Fan, Jun; Mills, Debra M.; Arvanites, Anthony C.; Orgueira, Hernan; Ashwell, Mark A.; Carmel, Gilles; Xiang, Yibin; Moir, Donald T.

CORPORATE SOURCE: Genome Therapeutics Corporation, Waltham, MA, 02453, USA

SOURCE: Antimicrobial Agents and Chemotherapy (2004), 48(5), 1541-1547

CODEN: AMACCQ; ISSN: 0066-4804

PUBLISHER: American Society for Microbiology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Bacterial enoyl-acyl carrier protein reductase (ENR) catalyzes an essential step in fatty acid biosynthesis. ENR is an attractive target for narrow-spectrum antibacterial drug discovery because of its essential role in metab. and its sequence conservation across many bacterial species. In addn., the bacterial ENR sequence and structural organization are distinctly different from those of mammalian fatty acid biosynthesis enzymes. High-throughput screening to identify inhibitors of Escherichia coli ENR yielded four structurally distinct classes of hits. Several members of one of these, the 2-(alkylthio)-4,6-diphenylpyridine-3-carbonitriles ("thiopyridines"), inhibited both purified ENR (50% inhibitory concn. [IC50] = 3-25 .mu.M) and the growth of Staphylococcus aureus and Bacillus subtilis (MIC = 1-64 .mu.g/mL). The effect on cell growth is due in part to inhibition of fatty acid biosynthesis as judged by inhibition of incorporation of [14C]acetate into fatty acids and by the increased sensitivity of cells that underexpress an ENR-encoding gene (4-8-fold MIC shift). Synthesis of a variety of compds. in this chem. series revealed a correlation between IC50 and MIC, and the results provided initial structure-activity relationships. Preliminary structure-activity relationships, potency on purified ENR, and activity on bacterial cells indicate that members of the thiopyridine chem. series are

effective fatty acid biosynthesis inhibitors suitable for further antibacterial development.

IT ***340808-61-9*** , GTC 004061 ***750595-50-7*** , GTC 343131
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibitors of bacterial enoyl-acyl carrier protein reductase)
RN 340808-61-9 CAPLUS
CN Benzoic acid, 4-[[(3-cyano-4,6-di-2-thienyl-2-pyridinyl)thio]methyl]- (CA
INDEX NAME)

/ Structure 4 in file .gra /

RN 750595-50-7 CAPLUS
CN Benzoic acid, 4-[1-[(3-cyano-4,6-di-2-thienyl-2-pyridinyl)thio]ethyl]-
(CA INDEX NAME)

/ Structure 5 in file .gra /

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS
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=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	11.86	190.43

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.60	-1.60

STN INTERNATIONAL LOGOFF AT 10:39:35 ON 08 SEP 2008

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NEWS 3 APR 15 WPIDS, WPINDEX, and WPIX enhanced with new
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NEWS	22	AUG 13	CA/CAPLUS enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS	23	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	24	AUG 15	CAPLUS currency for Korean patents enhanced
NEWS	25	AUG 25	CA/CAPLUS, CASREACT, and IFI and USPAT databases enhanced for more flexible patent number searching
NEWS	26	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information
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NEWS IPC8	For general information regarding STN implementation of IPC 8		

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FILE 'HOME' ENTERED AT 10:51:02 ON 08 SEP 2008

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.42

0.42

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DICTIONARY FILE UPDATES: 7 SEP 2008 HIGHEST RN 1047406-12-1

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=>

Uploading C:\Program Files\STNEXP\Queries\10542351 take 2.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

/ Structure 6 in file .gra /

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 10:52:13 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 42 TO ITERATE

100.0% PROCESSED 42 ITERATIONS
SEARCH TIME: 00.00.01

27 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 452 TO 1228
PROJECTED ANSWERS: 229 TO 851

L2 27 SEA SSS SAM L1

=> s l1 sss ful

FULL SEARCH INITIATED 10:52:21 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 554 TO ITERATE

100.0% PROCESSED 554 ITERATIONS

342 ANSWERS

SEARCH TIME: 00.00.01

L3 342 SEA SSS FUL L1

=> file cap

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

178.36

178.78

FILE 'CAPLUS' ENTERED AT 10:52:26 ON 08 SEP 2008

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FILE COVERS 1907 - 8 Sep 2008 VOL 149 ISS 11

FILE LAST UPDATED: 7 Sep 2008 (20080907/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s l3

L4 5 L3

=> d l4 1-5 ibib abs hitstr

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:1016002 CAPLUS <<LOGINID::20080908>>

DOCUMENT NUMBER: 142:6311

TITLE: A preparation of benzamide derivatives, useful as glyoxalase inhibitors

INVENTOR(S): Ashton, Mark; Davidson, Alan; Thomas, Russell; Whittaker, Mark

PATENT ASSIGNEE(S): Chroma Therapeutics Limited, UK

SOURCE: PCT Int. Appl., 77 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004101506	A1	20041125	WO 2004-GB2101	20040514
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004238625	A1	20041125	AU 2004-238625	20040514
CA 2525438	A1	20041125	CA 2004-2525438	20040514
EP 1622869	A1	20060208	EP 2004-733031	20040514
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
JP 2006528964	T	20061228	JP 2006-530505	20040514
US 20070015799	A1	20070118	US 2005-556901	20051115
PRIORITY APPLN. INFO.:			GB 2003-11195	A 20030515
			WO 2004-GB2101	W 20040514
OTHER SOURCE(S):		MARPAT 142:6311		
GI				

/ Structure 7 in file .gra /

AB The invention relates to a prepn. of benzamide derivs. of formula I [wherein: X is N or CH; R1 is H, CN, halogen, NH2, or S-alkyl, etc.; R2 is H, CF3, (un)substituted aryl, cycloalkyl, or heterocyclyl, etc.; R3 is the same as R2 excluding CF3; R4 is H, (un)substituted aryl or heterocyclyl; R5 is H, (un)substituted alkyl, aryl, or alkylene-aryl; L1 is (un)substituted alkylene, arylene, or alkylene-arylene, etc.; L2 is a single bond, (un)substituted alkylene, or C(O)-alkylene, etc.; L3 and L4 are independently selected from a single bond, (un)substituted alkylene, or alkylene-NHN(OH)C(O)-arylene, etc.], useful as glyoxalase inhibitors. For instance, benzamide deriv. II (R6 = OH; 80% proliferation inhibition in HL60s, IC50 = 8.3 .mu.M) was prepd. via hydrolysis of N-(benzoyloxy)benzamide II [R6 = OC(O)Ph] with a yield of 41%.

IT ***354555-67-2P***
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of benzamide derivs. useful as glyoxalase inhibitors)

RN 354555-67-2 CAPLUS

CN Benzeneacetic acid, .alpha.-[(3-cyano-4,6-di-2-thienyl-2-pyridinyl)thio]-(CA INDEX NAME)

/ Structure 8 in file .gra /

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:633527 CAPLUS <<LOGINID::20080908>>

DOCUMENT NUMBER: 141:174078

TITLE: Preparation of thienylpyridinecarbonitriles as bacterial enoyl-ACP reductase (FabI) inhibitors.

INVENTOR(S): Moir, Donald T.; Xiang, Yibin; Arvanites, Anthony C.; Ali, Syed Masarrat; Geng, Bolin; Ashwell, Mark A.; Orgueira, Hernan Antonio

PATENT ASSIGNEE(S): Genome Therapeutics Corporation, USA; Arqule

SOURCE: PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004064837	A1	20040805	WO 2004-US1327	20040116
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
US 20070027190	A1	20070201	US 2006-542351	20060807
PRIORITY APPLN. INFO.:			US 2003-441411P	P 20030117
			WO 2004-US1327	W 20040116
OTHER SOURCE(S):	MARPAT 141:174078			
GI				

/ Structure 9 in file .gra /

AB Title compds. I [R1, R2 = (un)substituted monocyclic aryl, heteroaryl; Y = X1-X2; X1 = bond, (un)substituted alkylene; X2 = aryl, heteroaryl, cycloaliph., etc.] and their pharmaceutically acceptable salts were prepd. For example, condensation-annulation of 1,3-di-2-thienyl-2-propen-1-one and 2-cyanoethanethioamide, followed by 4-(bromomethyl)benzoic acid S-alkylation of the resulting thioxopyridinecarbonitrile (no data provided), afforded claimed thienylpyridinecarbonitrile II. In methicillin-resistant Staphylococcus aureus minimal inhibitory concn. (MIC) assays, 14-examples of compds. I exhibited MIC values ranging from 0.75->64 .mu.g/mL, e.g., the MIC value of thienylpyridinecarbonitrile II was 4 .mu.g/mL. Compds. I are claimed useful for the. Of note, compds. I are proposed to inhibit bacterial enoyl-ACP reductase (FabI), a NADH-dependent enoyl [acyl carrier protein] reductase enzyme in the fatty acid biosynthesis pathway.

IT ***296797-06-3P*** ***340808-61-9P*** ***354555-67-2P***
733052-04-5P ***733052-05-6P*** ***733052-06-7P***
733052-07-8P ***733052-09-0P***

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of thienylpyridinecarbonitriles as bacterial enoyl-ACP reductase (FabI) inhibitors.)

RN 296797-06-3 CAPLUS
 CN Acetamide, N-[3-(acetylamino)phenyl]-2-[(3-cyano-4,6-di-2-thienyl-2-pyridinyl)thio]- (CA INDEX NAME)

/ Structure 10 in file .gra /

RN 340808-61-9 CAPLUS
 CN Benzoic acid, 4-[(3-cyano-4,6-di-2-thienyl-2-pyridinyl)thio]methyl]- (CA INDEX NAME)

/ Structure 11 in file .gra /

RN 354555-67-2 CAPLUS
 CN Benzeneacetic acid, .alpha.-[(3-cyano-4,6-di-2-thienyl-2-pyridinyl)thio]- (CA INDEX NAME)

/ Structure 12 in file .gra /

RN 733052-04-5 CAPLUS
 CN Benzoic acid, 4-[2-[(3-cyano-4,6-di-2-thienyl-2-pyridinyl)thio]ethyl]- (CA INDEX NAME)

/ Structure 13 in file .gra /

RN 733052-05-6 CAPLUS
 CN 3-Pyridinecarbonitrile, 2-[(1-phenylethyl)thio]-4,6-di-2-thienyl- (CA INDEX NAME)

/ Structure 14 in file .gra /

RN 733052-06-7 CAPLUS
 CN Benzoic acid, 3-[(3-cyano-4,6-di-2-thienyl-2-pyridinyl)thio]methyl]- (CA INDEX NAME)

/ Structure 15 in file .gra /

RN 733052-07-8 CAPLUS
 CN Benzeneacetic acid, 4-[(3-cyano-4,6-di-2-thienyl-2-pyridinyl)thio]methyl]- (CA INDEX NAME)

/ Structure 16 in file .gra /

RN 733052-09-0 CAPLUS
 CN Propanoic acid, 3-[(3-cyano-4,6-di-2-thienyl-2-pyridinyl)thio]- (CA INDEX NAME)

/ Structure 17 in file .gra /

IT ***243987-05-5P***
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. of thienylpyridinecarbonitriles as bacterial enoyl-ACP
 reductase (FabI) inhibitors.)
RN 243987-05-5 CAPLUS
CN 3-Pyridinecarbonitrile, 1,2-dihydro-4,6-di-2-thienyl-2-thioxo- (CA INDEX
 NAME)

/ Structure 18 in file .gra /

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:374624 CAPLUS <<LOGINID::20080908>>
DOCUMENT NUMBER: 141:239652
TITLE: Identification and characterization of inhibitors of
 bacterial enoyl-acyl carrier protein reductase
AUTHOR(S): Ling, Losee L.; Xian, Jun; Ali, Syed; Geng, Bolin;
 Fan, Jun; Mills, Debra M.; Arvanites, Anthony C.;
 Orgueira, Hernan; Ashwell, Mark A.; Carmel, Gilles;
 Xiang, Yibin; Moir, Donald T.
CORPORATE SOURCE: Genome Therapeutics Corporation, Waltham, MA, 02453,
 USA
SOURCE: Antimicrobial Agents and Chemotherapy (2004), 48(5),
 1541-1547
 CODEN: AMACCQ; ISSN: 0066-4804
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Bacterial enoyl-acyl carrier protein reductase (ENR) catalyzes an
 essential step in fatty acid biosynthesis. ENR is an attractive target
 for narrow-spectrum antibacterial drug discovery because of its essential
 role in metab. and its sequence conservation across many bacterial
 species. In addn., the bacterial ENR sequence and structural organization
 are distinctly different from those of mammalian fatty acid biosynthesis
 enzymes. High-throughput screening to identify inhibitors of Escherichia
 coli ENR yielded four structurally distinct classes of hits. Several
 members of one of these, the 2-(alkylthio)-4,6-diphenylpyridine-3-
 carbonitriles ("thiopyridines"), inhibited both purified ENR (50%
 inhibitory concn. [IC50] = 3-25 .mu.M) and the growth of Staphylococcus
 aureus and Bacillus subtilis (MIC = 1-64 .mu.g/mL). The effect on cell
 growth is due in part to inhibition of fatty acid biosynthesis as judged
 by inhibition of incorporation of [14C]acetate into fatty acids and by the
 increased sensitivity of cells that underexpress an ENR-encoding gene
 (4-8-fold MIC shift). Synthesis of a variety of compds. in this chem.
 series revealed a correlation between IC50 and MIC, and the results
 provided initial structure-activity relationships. Preliminary
 structure-activity relationships, potency on purified ENR, and activity on
 bacterial cells indicate that members of the thiopyridine chem. series are
 effective fatty acid biosynthesis inhibitors suitable for further
 antibacterial development.

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:412595 CAPLUS <<LOGINID::20080908>>
DOCUMENT NUMBER: 133:207831
TITLE: Synthesis of substituted 4-hydroxy-1H-thieno[2,3-b;4,5-b']dipyridin-2-ones
AUTHOR(S): Rodinovskaya, L. A.; Shestopalov, A. M.
CORPORATE SOURCE: N. D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Moscow, 117913, Russia
SOURCE: Russian Chemical Bulletin (Translation of Izvestiya Akademii Nauk, Seriya Khimicheskaya) (2000), 49(2), 348-354
CODEN: RCBUEY; ISSN: 1066-5285
PUBLISHER: Consultants Bureau
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

/ Structure 26 in file .gra /

AB Substituted 4-hydroxy-1H-thieno[2,3-b;4,5-b']dipyridin-2-ones, e.g., I, were prepd. by reaction of 3-cyanopyridine-2(1H)-thiones with alkyl 4-chloroacetoacetates and by intramol. cyclization of alkyl 4-(2-pyridylthio)acetoacetates or alkyl 3-(3-aminothieno[2,3-b]pyridin-2-yl)-3-oxopropionates under the action of bases.
IT ***243987-05-5***
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of 4-hydroxy-1H-thieno[2,3-b;4,5-b']dipyridin-2-ones)
RN 243987-05-5 CAPLUS
CN 3-Pyridinecarbonitrile, 1,2-dihydro-4,6-di-2-thienyl-2-thioxo- (CA INDEX NAME)

/ Structure 27 in file .gra /

IT ***290299-69-3P***
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of 4-hydroxy-1H-thieno[2,3-b;4,5-b']dipyridin-2-ones)
RN 290299-69-3 CAPLUS
CN Butanoic acid, 4-[(3-cyano-4,6-di-2-thienyl-2-pyridinyl)thio]-3-oxo-, ethyl ester (CA INDEX NAME)

/ Structure 28 in file .gra /

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:455705 CAPLUS <<LOGINID::20080908>>
DOCUMENT NUMBER: 131:228634
TITLE: One stage synthesis of 4,6-diaryl-3-cyanopyridine-2(1H)-thiones
AUTHOR(S): Shestopalov, A. M.; Nikishin, K. G.

CORPORATE SOURCE: N. D. Zelinskii Institute of Organic Chemistry,
Russian Academy of Sciences, Moscow, 117913, Russia

SOURCE: Chemistry of Heterocyclic Compounds (New
York)(Translation of Khimiya Geterotsiklicheskikh
Soedinenii) (1999), Volume Date 1998, 34(9), 1093
CODEN: CHCCAL; ISSN: 0009-3122

PUBLISHER: Consultants Bureau

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The title compds. were prepd. in 82-92% yields by cyclization of
.alpha.,.beta.-unsatd. ketones with malononitrile and S in refluxing EtOH
in the presence of morpholine.

IT ***243987-05-5P***
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of diarylcyanopyridine 2(1H)-thiones)

RN 243987-05-5 CAPLUS

CN 3-Pyridinecarbonitrile, 1,2-dihydro-4,6-di-2-thienyl-2-thioxo- (CA INDEX
NAME)

/ Structure 29 in file .gra /

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FULL ESTIMATED COST	1.26	208.25
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NEWS	7	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
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NEWS	12	JUN 25	CA/CAPLUS and USPAT databases updated with IPC reclassification data
NEWS	13	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
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NEWS	16	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS	17	JUL 28	CA/CAPLUS patent coverage enhanced
NEWS	18	JUL 28	EPFULL enhanced with additional legal status information from the EPOLINE Register
NEWS	19	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS	20	JUL 28	STN Viewer performance improved
NEWS	21	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS	22	AUG 13	CA/CAPLUS enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS	23	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	24	AUG 15	CAPLUS currency for Korean patents enhanced
NEWS	25	AUG 25	CA/CAPLUS, CASREACT, and IFI and USPAT databases enhanced for more flexible patent number searching
NEWS	26	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information

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L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

/ Structure 30 in file .gra /

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L2 STRUCTURE UPLOADED

=> d l2

L2 HAS NO ANSWERS

L2 STR

/ Structure 31 in file .gra /

Structure attributes must be viewed using STN Express query preparation.

=> s l1 or l2

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SAMPLE SCREEN SEARCH COMPLETED - 646 TO ITERATE

100.0% PROCESSED 646 ITERATIONS

11 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 11396 TO 14444

PROJECTED ANSWERS: 22 TO 418

L3 11 SEA SSS SAM L1 OR L2

=> s l1 sss full

FULL SEARCH INITIATED 11:32:28 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 18549 TO ITERATE

100.0% PROCESSED 18549 ITERATIONS

285 ANSWERS

SEARCH TIME: 00.00.01

L4 285 SEA SSS FUL L1

=> s 12 sss ful
FULL SEARCH INITIATED 11:32:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 742 TO ITERATE

100.0% PROCESSED 742 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

L5 2 SEA SSS FUL L2

=> file cap
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ENTRY SESSION
FULL ESTIMATED COST 356.72 356.93

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100 L4
3 L5
L6 102 L4 OR L5

=> s 16 and bacteria
348391 BACTERIA
129 BACTERIAS
348461 BACTERIA
(BACTERIA OR BACTERIAS)
L7 3 L6 AND BACTERIA

=> d 1-3 17 ibib abs hitstr

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:196524 CAPLUS <<LOGINID::20080908>>

DOCUMENT NUMBER: 147:419384
TITLE: New antimicrobial 9-(p-heterocyclo-substituted anilino)-tetrahydroacridines
AUTHOR(S): Ebeid, M. Y.; Kamel, M. M.; Nofal, Z. M.; Ragab, F.; Zaghary, W. A.; El-Kady, M.
CORPORATE SOURCE: Faculty of Pharmacy, Cairo University, Egypt
SOURCE: Egyptian Journal of Chemistry (2006), 49(2), 277-285
CODEN: EGJCA3; ISSN: 0449-2285
PUBLISHER: National Information and Documentation Centre
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A new series of 9-[p-(4-aryl-3-cyano-2-iminopyridin-6-yl)anilino]-1,2,3,4-tetrahydroacridines and their 2-oxo-(or thioxo)-pyridinylanilino derivs. were synthesized and evaluated against ***bacteria*** and fungi. These compds. showed high significant activity against *Saccharomyces cerevisiae*, *Bacillus subtilis*, *Staphylococcus aureus*, *Penicillium notatum*, *Aspergillus niger*, *Candida utilis*, and *Candida albicans*.

IT ***951320-46-0P***

RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(new antimicrobial 9-(p-heterocyclo-substituted anilino)-tetrahydroacridines)

RN 951320-46-0 CAPLUS

CN 3-Pyridinecarbonitrile, 1,2-dihydro-4-phenyl-6-[4-[(1,2,3,4-tetrahydro-9-acridinyl)amino]phenyl]-2-thioxo- (CA INDEX NAME)

/ Structure 32 in file .gra /

IT ***951320-47-1P*** ***951320-48-2P*** ***951320-49-3P***

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(new antimicrobial 9-(p-heterocyclo-substituted anilino)-tetrahydroacridines)

RN 951320-47-1 CAPLUS

CN 3-Pyridinecarbonitrile, 1,2-dihydro-4-(3-methoxyphenyl)-6-[4-[(1,2,3,4-tetrahydro-9-acridinyl)amino]phenyl]-2-thioxo- (CA INDEX NAME)

/ Structure 33 in file .gra /

RN 951320-48-2 CAPLUS

CN 3-Pyridinecarbonitrile, 4-(3-chlorophenyl)-1,2-dihydro-6-[4-[(1,2,3,4-tetrahydro-9-acridinyl)amino]phenyl]-2-thioxo- (CA INDEX NAME)

/ Structure 34 in file .gra /

RN 951320-49-3 CAPLUS

CN 3-Pyridinecarbonitrile, 1,2-dihydro-6-[4-[(1,2,3,4-tetrahydro-9-acridinyl)amino]phenyl]-2-thioxo-4-(2,3,4-trimethoxyphenyl)- (CA INDEX NAME)

/ Structure 35 in file .gra /

IT ***951320-50-6***

RL: RCT (Reactant); RACT (Reactant or reagent)
 (new antimicrobial 9-(p-heterocyclo-substituted anilino)-
 tetrahydroacridines)

RN 951320-50-6 CAPLUS
 CN 3-Pyridinecarbonitrile, 4-[3-(dimethylamino)phenyl]-1,2-dihydro-6-[4-
 [(1,2,3,4-tetrahydro-9-acridinyl)amino]phenyl]-2-thioxo- (CA INDEX NAME)

/ Structure 36 in file .gra /

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1999:221628 CAPLUS <<LOGINID::20080908>>
 DOCUMENT NUMBER: 130:325083
 TITLE: Synthesis and antimicrobial activity of some new
 4-methylquinolines
 AUTHOR(S): Kamel, M. M.; Fathala, O. A.; Abdou, W. A. M.; Haiba,
 M. E.
 CORPORATE SOURCE: Medicinal Chemistry Department, National Research
 Centre, Cairo, Egypt
 SOURCE: Proceedings of the Pakistan Academy of Sciences
 (1997), 34(1), 7-11
 CODEN: PKSPAW; ISSN: 0377-2969
 PUBLISHER: Pakistan Academy of Sciences
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Some new 4,8-dimethyl-2-[p-(3-cyano-2-thioxo-4-arylpyridine-6-
 yl)]anilinoquinolines and 7-chloro-4-methyl-2-(4-hydroxy)anilinoquinoline
 Mannich bases were synthesized for the purpose of antimicrobial evaluation
 against ***bacteria***, yeast, and fungi. Two compds. showed activity
 against these microorganisms.

IT ***218272-67-4P*** ***218272-68-5P*** ***218272-69-6P***
 223697-02-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of methylquinolines as antibacterial and antifungal agents)

RN 218272-67-4 CAPLUS
 CN 3-Pyridinecarbonitrile, 6-[4-[(4,8-dimethyl-2-quinolinyl)amino]phenyl]-1,2-
 dihydro-4-(4-methoxyphenyl)-2-thioxo- (CA INDEX NAME)

/ Structure 37 in file .gra /

RN 218272-68-5 CAPLUS
 CN 3-Pyridinecarbonitrile, 4-[4-(dimethylamino)phenyl]-6-[4-[(4,8-dimethyl-2-
 quinolinyl)amino]phenyl]-1,2-dihydro-2-thioxo- (CA INDEX NAME)

/ Structure 38 in file .gra /

RN 218272-69-6 CAPLUS
 CN 3-Pyridinecarbonitrile, 6-[4-[(4,8-dimethyl-2-quinolinyl)amino]phenyl]-1,2-
 dihydro-4-(3-methoxy-2-nitrophenyl)-2-thioxo- (CA INDEX NAME)

/ Structure 39 in file .gra /

RN 223697-02-7 CAPLUS
CN 3-Pyridinecarbonitrile, 6-[4-[(7-chloro-4-methyl-2-quinolinyl)amino]phenyl]-1,2-dihydro-4-(4-methoxyphenyl)-2-thioxo- (CA INDEX NAME)

/ Structure 40 in file .gra /

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1998:702455 CAPLUS <<LOGINID::20080908>>
DOCUMENT NUMBER: 130:66375
TITLE: Synthesis of some new 4-methylquinolines of possible biological activity
AUTHOR(S): Kamel, M. M.; Fathalla, O. A.; Abdou, W. A. M.; Omer, M. T.; Haiba, M. E.
CORPORATE SOURCE: Medicinal Chemistry Department, National Research Centre, Cairo, Egypt
SOURCE: Egyptian Journal of Pharmaceutical Sciences (1998), Volume Date 1997, 38(1-3), 79-86
CODEN: EJPSBZ; ISSN: 0301-5068
PUBLISHER: National Information and Documentation Centre
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Some new 4,8-dimethyl-2-[p-(3-cyano-2-thioxo-4-arylpyridin-6-yl)]anilinoquinolines and 7-chloro-4-methyl-2-(4-hydroxy)anilinoquinolines Mannich bases were synthesized for the purpose of antimicrobial evaluation against ***bacteria***, yeast, and fungi. 7-Chloro-4-methyl-2-[4-hydroxy-3,5-di(diethylaminomethyl)]anilinoquinoline showed fungicidal activity against Aspergillus niger.
IT ***218272-67-4P*** ***218272-68-5P*** ***218272-69-6P***
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis and antimicrobial activity of 4-methylquinolines)
RN 218272-67-4 CAPLUS
CN 3-Pyridinecarbonitrile, 6-[4-[(4,8-dimethyl-2-quinolinyl)amino]phenyl]-1,2-dihydro-4-(4-methoxyphenyl)-2-thioxo- (CA INDEX NAME)

/ Structure 41 in file .gra /

RN 218272-68-5 CAPLUS
CN 3-Pyridinecarbonitrile, 4-[4-(dimethylamino)phenyl]-6-[4-[(4,8-dimethyl-2-quinolinyl)amino]phenyl]-1,2-dihydro-2-thioxo- (CA INDEX NAME)

/ Structure 42 in file .gra /

RN 218272-69-6 CAPLUS
CN 3-Pyridinecarbonitrile, 6-[4-[(4,8-dimethyl-2-quinolinyl)amino]phenyl]-1,2-dihydro-4-(3-methoxy-2-nitrophenyl)-2-thioxo- (CA INDEX NAME)

/ Structure 43 in file .gra /

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.66	379.42
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.40

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LAST RELOADED: Sep 5, 2008 (20080905/UP).

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.54	379.96
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.40

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L8 STRUCTURE UPLOADED

=> d l8

L8 HAS NO ANSWERS

L8 STR

/ Structure 44 in file .gra /

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=> s l8 sss ful

FULL SEARCH INITIATED 11:49:05 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1468 TO ITERATE

100.0% PROCESSED 1468 ITERATIONS 16 ANSWERS
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L9 16 SEA SSS FUL L8

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FILE COVERS 1907 - 8 Sep 2008 VOL 149 ISS 11
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L10

5 L9

=> d l10 1-5 ibib abs hitstf
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L10 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:798258 CAPLUS <<LOGINID::20080908>>

DOCUMENT NUMBER: 148:538031

TITLE: Synthesis and investigation of the stability of esters of 6'-carbamoylmethylthio-5'-cyano-1',4'-dihydro-3,4'- and -4,4'-bipyridine-3'-carboxylic acids. Part 1. Esters of 6'-carbamoylmethylthio-5'-cyano-1',4'-dihydro-3,4'-bipyridine-3'-carboxylic acids

AUTHOR(S): Kazoka, H.; Krauze, A.; Vilums, M.; Cernova, L.; Sile, L.; Duburs, G.

CORPORATE SOURCE: Latvian Institute of Organic Synthesis, Riga, LV-1006, Latvia

SOURCE: Chemistry of Heterocyclic Compounds (New York, NY, United States) (2007), 43(1), 50-57
CODEN: CHCCAL; ISSN: 0009-3122

PUBLISHER: Springer

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Esters of 6'-carbamoylmethylthio-5'-cyano-1',4'-dihydro-3,4'-bipyridine-3'-carboxylic acids are obtained by the alkylation of piperidinium 3'-alkoxycarbonyl-5'-cyano-1',4'-dihydro-3,4'-bipyridine-6'-thiolates with iodoacetamide. For an HPLC study of the stability of solns. of the abovementioned 1,4-dihydrobipyridines (soln., pH 2.3-9.0), the appropriate esters of 6'-carbamoylmethylthio-5'-cyano-3,4'-bipyridine-3'-carboxylic acids and esters of 8-cyano-5-methyl(or phenyl)-3-oxo-7-pyridin-3-yl-2,3-dihydro-7H-thiazolo[3,2-a]pyridine-6-carboxylic acids were synthesized as

ref. compds. Anal. by HPLC was carried out under conditions of reverse-phase chromatog. It was shown that solns. of the investigated compds. in a mixt. of MeCN and phosphate buffer (pH 3.0-5.0) were stable for 1 mo on storage protected from light. Under the action of light in all the solns. investigated irresp. of pH, the formation occurs of the corresponding esters of 6'-carbamoylmethylthio-5'-cyano-3,4'-bipyridine-3'-carboxylic acids. The presence of esters of 8-cyano-5-methyl(or phenyl)-3-oxo-7-pyridin-3-yl-2,3-dihydro-7H-thiazolo[3,2-a]pyridine-6-carboxylic acids (.ltoreq.4%) was detected only in 0.1% solns. of phosphoric acid (pH 2.3) under conditions of storage of the latter protected from light. A series of as yet unidentified products was detected in solns. of pH 7.0-9.0.

IT ***144969-93-7P***

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and stability of esters of (carbamoylmethylthio)cyanodihydrobipyridinecarboxylates)

RN 144969-93-7 CAPLUS

CN [3,4'-Bipyridine]-3'-carboxylic acid, 6'-[(2-amino-2-oxoethyl)thio]-5'-cyano-2'-phenyl-, ethyl ester (CA INDEX NAME)

/ Structure 45 in file .gra /

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:547305 CAPLUS <<LOGINID::20080908>>

DOCUMENT NUMBER: 131:295109

TITLE: Derivatives of 3-cyano-6-phenyl-4-(3'-pyridyl)-pyridine-2(1H)-thione and their neurotropic activity

AUTHOR(S): Krauze, Aivars; Germane, Skaidrite; Eberlins, Ojars; Sturms, Igors; Klusa, Vija; Duburs, Gunars

CORPORATE SOURCE: Latvian Institute of Organic Synthesis, Riga, LV-1006, Latvia

SOURCE: European Journal of Medicinal Chemistry (1999), 34(4), 301-310

CODEN: EJMCA5; ISSN: 0223-5234

PUBLISHER: Editions Scientifiques et Medicales Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB 3-Cyano-6-phenyl-4-(3'-pyridyl)pyridine-2(1H)-thione, the related 2,2'-bis-pyridyldisulfide, 2-alkylthiopyridines and 2-amino-thieno[2,3-b]pyridines were synthesized and their neurotropic activities were examd. Bispyridyldisulfide exhibited low toxicity (LD50 > 5000 mg/kg, ICR mice, i.p.) and selective anti-amnesic activity at the doses of 0.05-0.5 mg/kg p.o. This effect was significantly higher than that induced by Piracetam at 50 mg/kg.

IT ***247056-20-8P*** ***247056-23-1P*** ***247056-24-2P***
247056-25-3P ***247056-26-4P*** ***247056-27-5P***
247056-28-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn. and neurotropic activity of 3-cyano-6-phenyl-4-(3'-pyridyl)-pyridine-2(1H)-thione derivs.)

RN 247056-20-8 CAPLUS
CN [3,4'-Bipyridine]-3'-carbonitrile, 1',2'-dihydro-6'-phenyl-2'-thioxo- (CA INDEX NAME)

/ Structure 46 in file .gra /

RN 247056-23-1 CAPLUS
CN [3,4'-Bipyridine]-3'-carbonitrile, 2'-(methylthio)-6'-phenyl- (CA INDEX NAME)

/ Structure 47 in file .gra /

RN 247056-24-2 CAPLUS
CN [3,4'-Bipyridine]-3'-carbonitrile, 2'-(ethylthio)-6'-phenyl- (CA INDEX NAME)

/ Structure 48 in file .gra /

RN 247056-25-3 CAPLUS
CN Acetic acid, 2-[(3'-cyano-6'-phenyl[3,4'-bipyridin]-2'-yl)thio]-, ethyl ester (CA INDEX NAME)

/ Structure 49 in file .gra /

RN 247056-26-4 CAPLUS
CN [3,4'-Bipyridine]-3'-carbonitrile, 2'-[(cyanomethyl)thio]-6'-phenyl- (CA INDEX NAME)

/ Structure 50 in file .gra /

RN 247056-27-5 CAPLUS
CN Acetamide, 2-[(3'-cyano-6'-phenyl[3,4'-bipyridin]-2'-yl)thio]- (CA INDEX NAME)

/ Structure 51 in file .gra /

RN 247056-28-6 CAPLUS
CN [3,4'-Bipyridine]-3'-carbonitrile, 2'-[(2-oxo-2-phenylethyl)thio]-6'-phenyl- (CA INDEX NAME)

/ Structure 52 in file .gra /

IT ***247056-21-9P***
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and neurotropic activity of 3-cyano-6-phenyl-4-(3'-pyridyl)-pyridine-2(1H)-thione derivs.)
RN 247056-21-9 CAPLUS

CN [3,4'-Bipyridine]-3'-carbonitrile, 2',2'''-dithiobis[6'-phenyl- (9CI) (CA
INDEX NAME)

/ Structure 53 in file .gra /

IT ***247056-22-0P***

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and neurotropic activity of 3-cyano-6-phenyl-4-(3'-pyridyl)-
pyridine-2(1H)-thione derivs.)

RN 247056-22-0 CAPLUS

CN [3,4'-Bipyridine]-3'-carbonitrile, 6'-phenyl-2'-(1-piperidinylthio)- (CA
INDEX NAME)

/ Structure 54 in file .gra /

REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1993:38791 CAPLUS <<LOGINID::20080908>>

DOCUMENT NUMBER: 118:38791

ORIGINAL REFERENCE NO.: 118:7067a,7070a

TITLE: Synthesis, properties, and cardiotoxic activity of
2-carbamoylmethylthio-6-phenyl-5-ethoxycarbonyl-3-
cyclo-4-(pyrido-3'yl)pyridine derivatives and their
hydrogenated analogs

AUTHOR(S): Krauze, A.; Garalene, V.; Duburs, G.

CORPORATE SOURCE: Inst. Org. Synth., Riga, Latvia

SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1992), 26(5), 40-3
CODEN: KHFZAN; ISSN: 0023-1134

DOCUMENT TYPE: Journal

LANGUAGE: Russian

GI

/ Structure 55 in file .gra /

AB Cyclocondensation of PhCOCH₂CO₂Et with 2-cyano-3-pyridinethioacrylamide in
the presence of bases gave pyridinecarboxylates I (X⁺ = piperidino, Na)
which when treated with ICH₂CONH₂ gave 82% amide II; betaine III (R = H)
similarly treated gave amide III (R = CH₂CONH₂) which underwent
base-catalyzed cyclization to give thienopyridine IV (R₁ = 3-pyridyl).
Addnl. obtained was IV (R₁ = Ph). The 4,3'-bipyridines show dual
activity-neg. inotropic action at low concns. and pos. inotropic activity
at concns. >10⁻⁵M.

IT ***144969-93-7P***

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn., cyclization, and cardiotoxic properties of)

RN 144969-93-7 CAPLUS

CN [3,4'-Bipyridine]-3'-carboxylic acid, 6'-[(2-amino-2-oxoethyl)thio]-5'-
cyano-2'-phenyl-, ethyl ester (CA INDEX NAME)

/ Structure 56 in file .gra /

L10 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:515227 CAPLUS <<LOGINID::20080908>>
DOCUMENT NUMBER: 113:115227
ORIGINAL REFERENCE NO.: 113:19527a,19530a
TITLE: Polycyclic pyridines. Part 8. Synthesis of new
primary, secondary and tertiary 3-aminothieno[2,3-
b]pyridine-2-carboxamides by different pathways
AUTHOR(S): Wagner, G.; Vieweg, H.; Leistner, S.; Boehm, N.;
Krasselt, U.; Hanfeld, Vera; Prantz, J.; Grupe, Renate
CORPORATE SOURCE: Sekt. Biowiss., Karl-Marx-Univ., Leipzig, DDR-7010,
Ger. Dem. Rep.
SOURCE: Pharmazie (1990), 45(2), 102-9
CODEN: PHARAT; ISSN: 0031-7144
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 113:115227
GI

/ Structure 57 in file .gra /

AB The treatment of 2-thioxo-1,2-dihydropyridine-3-carbonitriles with
ClCH₂CO₂NR₁R₃ (R₁, R₂ = H, Me, Et) gave 3-aminothieno[2,3-
b]pyridinecarboxylic acid amides I [R₁ = H, Et, Me; R₂ = H, Et, Bu,
cyclohexyl, CH₂CH₂OH, CH₂CO₂H; R₁R₂ = (CH₂)₅; R₃ = Me, Ph, 4-BrC₆H₄,
3-pyridyl, CONH₂, etc; R₄ = H, Me, CH₂C₆H₄(CN)-4; R₅ = Me, C₆H₄Cl-4, Ph,
C₆H₄Br-4, furyl, naphthyl, OH). Some of the compds. thus prep'd., e.g. I
(R₁ = R₂ = R₄ = H, R₃ = Me, R₅ = Ph) and I (R₁ = R₄ = H, R₂ = CH₂CH₂OH, R₃
= R₅ = Me) showed activity as antiallergics in the passive cutaneous
anaphylaxis test in rats.
IT ***127144-07-4***
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation reaction of, with chloroacetamide)
RN 127144-07-4 CAPLUS
CN [3,4'-Bipyridine]-3'-carbonitrile, 1',2'-dihydro-6'-(2-naphthalenyl)-2'-
thioxo- (CA INDEX NAME)

/ Structure 58 in file .gra /

L10 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:216643 CAPLUS <<LOGINID::20080908>>
DOCUMENT NUMBER: 112:216643
ORIGINAL REFERENCE NO.: 112:36565a,36568a
TITLE: Multicyclic pyridines. Part 6. Synthesis of new
heterocycle substituted 2-thioxo-1,2-dihydropyridine-3-
carbonitriles
AUTHOR(S): Vieweg, H.; Hanfeld, Vera; Leistner, S.; Wagner, G.
CORPORATE SOURCE: Sekt. Biowiss., Karl-Marx-Univ., Leipzig, DDR-7010,
Ger. Dem. Rep.
SOURCE: Pharmazie (1989), 44(9), 639-40
CODEN: PHARAT; ISSN: 0031-7144

DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 112:216643
GI

/ Structure 59 in file .gra /

AB Condensation of R1COMe (R1 = 2-furyl, 2-thienyl, 2-naphthyl) with R2CHO (R2 = Ph, 4-FC6H4, 4-ClC6H4, 4-BrC6H4, 3-pyridyl) in MeOH or H2O contg. NaOH gave 45-88% R1COCH:CHR2 which on cyclocondensation with NH2CSCH2CN in the presence of NaOMe in MeOH gave 32-71% title compds. I. Cyclocondensation of 1-(2-thienyl)-1,3-butanedione with NH2CSCH2CN in the presence of K2CO3-Me2CO gave isomeric mixt. of I (R1 = 2-thienyl, R2 = Me; R1 = Me, R2 = 2-thienyl) which on condensation with ClCH2CO2Et followed by base-mediated cyclization gave thienopyridinecarboxylates II (R3 = 2-thienyl, R4 = Me; R3 = Me, R4 = 2-thienyl).

IT ***127144-07-4P***
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 127144-07-4 CAPLUS

CN [3,4'-Bipyridine]-3'-carbonitrile, 1',2'-dihydro-6'-(2-naphthalenyl)-2'-thioxo- (CA INDEX NAME)

/ Structure 60 in file .gra /

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L15 2250 SEA SSS FUL L12

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=> s l14 or l15

1101 L14

765 L15

L16 1125 L14 OR L15

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DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
          SCAN must be entered on the same line as the DISPLAY,
          e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB, CLASS

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IALL ----- ALL, indented with text labels
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IMAX ----- MAX, indented with text labels
ISTD ----- STD, indented with text labels

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

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          containing hit terms
HITRN ----- HIT RN and its text modification
HITSTR ----- HIT RN, its text modification, its CA index name, and
          its structure diagram
HITSEQ ----- HIT RN, its text modification, its CA index name, its
          structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
          its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
          structure diagram, plus NTE and SEQ fields
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348391 BACTERIA

129 BACTERIAS

348461 BACTERIA

(BACTERIA OR BACTERIAS)

L17 11 L16 AND BACTERIA

=> d scan

L17 11 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN

IC ICM C07D519-00

ICA A61K031-545

ICI C07D519-00, C07D501-00, C07D495-00

CC 26-5 (Biomolecules and Their Synthetic Analogs)
Section cross-reference(s): 1

TI Preparation of cephalosporin derivatives as antibacterial agents

ST thienopyridiniomethylcephemcarboxylate prepn antibacterial; cephalosporin prepn antibacterial; cephemcarboxylate thienopyridiniomethyl prepn antibacterial

IT Antibiotics

([thiazolyl(hydroxyimino)acetamido](thienopyridiniomethyl)cephemcarboxylate derivs.)

IT	152938-71-1P	152938-72-2P	152938-73-3P	152938-74-4P	152938-75-5P
	152938-76-6P	152938-77-7P	152938-78-8P	152938-79-9P	152938-80-2P
	152938-81-3P	152938-82-4P	152938-83-5P	152938-84-6P	152938-85-7P
	152938-86-8P	152938-87-9P	152938-88-0P	152938-89-1P	152938-90-4P
	152938-91-5P	152938-92-6P	152938-93-7P	152938-94-8P	152938-95-9P
	152938-96-0P	152938-97-1P	152938-98-2P	152938-99-3P	152939-00-9P
	152939-01-0P				

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. of, as antibacterial agent)

IT	151027-96-2P	151027-97-3P	152938-44-8P	152938-45-9P	152938-46-0P
	152938-47-1P	152938-48-2P	152938-49-3P	152938-50-6P	152938-51-7P
	152938-52-8P	152938-53-9P	152938-54-0P	152938-55-1P	152938-56-2P
	152938-57-3P	152938-58-4P	152938-59-5P	152938-60-8P	152938-61-9P
	152938-62-0P	152938-63-1P	152938-64-2P	152938-65-3P	152938-66-4P
	152938-67-5P	152938-68-6P	152938-69-7P	152938-70-0P	152939-02-1P
	152939-03-2P	152939-04-3P	152939-05-4P	152939-06-5P	152939-07-6P
	152939-08-7P	152939-09-8P	152939-10-1P	***152939-11-2P***	

152939-12-3P 152939-13-4P 152939-14-5P, Thieno[2,3-

b]pyridine-

	3,5-diamine	152939-15-6P	152939-16-7P	152939-17-8P	152939-18-9P
		152939-19-0P	152939-20-3P	152939-21-4P	152939-22-5P
		152939-23-6P	152939-24-7P	152939-25-8P	152939-26-9P
		152939-27-0P	152939-28-1P	152939-29-2P	152939-30-5P
		152939-31-6P	152939-32-7P		

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of, as intermediate for antibacterial cephalosporin deriv.)

IT 75-52-5, Nitromethane, reactions 105-36-2, Ethyl bromoacetate
407-25-0, Trifluoroacetic anhydride 563-41-7, Semicarbazide
hydrochloride 762-49-2, 1-Bromo-2-fluoroethane 883-40-9,

Diphenyldiazomethane 2365-48-2, Methyl thioglycolate 7664-41-7,
Ammonia, reactions 18600-39-0, Cyclopropylamine hydrochloride
24424-99-5, Di-tert-butyl dicarbonate 26579-54-4, Thieno[2,3-b]pyridin-3-
amine 31309-08-7 53174-99-5, 3-Formylthieno[2,3-b]pyridine
84728-65-4 142604-12-4 152939-31-6, Thieno[2,3-b]pyridin-3-ol
152939-33-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in prepn. of antibacterial cephalosporin deriv.)

IT 11111-12-9D, Cephalosporin, derivs.

RL: RCT (Reactant); RACT (Reactant or reagent)
(thienopyridiniomethyl-)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> d 117 1-11 ibib abs hitstr

L17 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:526897 CAPLUS <<LOGINID::20080908>>

DOCUMENT NUMBER: 149:121710

TITLE: Virtual screening and experimental verification to
identify potential inhibitors of the ErmC
methyltransferase responsible for bacterial resistance
against macrolide antibiotics

AUTHOR(S): Feder, Marcin; Purta, Elzbieta; Koscinski, Lukasz;
Cubrilo, Sonja; Vlahovicek, Gordana Maravic; Bujnicki,
Janusz M.

CORPORATE SOURCE: Laboratory of Bioinformatics and Protein Engineering,
International Institute of Molecular and Cell Biology,
Warsaw, 02109, Pol.

SOURCE: ChemMedChem (2008), 3(2), 316-322
CODEN: CHEMGX; ISSN: 1860-7179

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Methyltransferases from the Erm family catalyze S-adenosyl-L-methionine-
dependent modification of a specific adenine residue in bacterial 23S
rRNA, thereby conferring resistance to clin. important macrolide,
lincosamide, and streptogramin B antibiotics. Thus, far, no inhibitors of
these enzymes have been identified or designed that would effectively
abolish the resistance in vivo. We used the crystal structure of ErmC'
methyltransferase as a target for structure-based virtual screening of a
database composed of 58679 lead-like compds. Among 77 compds. selected
for exptl. validation (63 predicted to bind to the catalytic pocket and 14
compds. predicted to bind to the putative RNA binding site), we found
several novel inhibitors that decrease the minimal inhibitory concn. of a
macrolide antibiotic erythromycin toward an Escherichia coli strain that
constitutively expresses ErmC'. Eight of them have IC50 values in the
micromolar range. Anal. of docking models of the identified inhibitors
suggests a novel strategy to develop potent and clin. useful inhibitors.

IT ***285987-27-1***

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)

(ErmC' methyltransferase inhibitor; virtual screening and exptl.
verification to identify potential inhibitors of ErmC methyltransferase
responsible for bacterial resistance against macrolide antibiotics)

RN 285987-27-1 CAPLUS

CN 3-Pyridinecarbonitrile, 4-methyl-2,6-bis[(4-methylphenyl)thio]- (CA INDEX

NAME)

/ Structure 63 in file .gra /

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:436667 CAPLUS <<LOGINID::20080908>>

DOCUMENT NUMBER: 147:469291

TITLE: A convenient synthesis of some new
indeno[1,2-b]pyridines and indeno[1,2-b]thieno[3,2-
e]pyridine derivatives with potential biological
activity

AUTHOR(S): El-Ossaily, Yasser A.

CORPORATE SOURCE: Chemistry Department, Assiut University, Assiut, Egypt

SOURCE: Phosphorus, Sulfur and Silicon and the Related
Elements (2007), 182(5), 1109-1117
CODEN: PSSLEC; ISSN: 1042-6507

PUBLISHER: Taylor & Francis, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 147:469291

GI

/ Structure 64 in file .gra /

AB Heterocyclization of 1,3-indandione with arylidene cyanoacetamide, or
arylideneindanone with cyanoacetamide afforded indenopyridinethione, which
underwent cyclization with Et chloroacetate or chloroacetone to give
indeno[1,2-b]pyridines. The alkylthioindenopyridines. underwent ring
closure with sodium ethoxide to produce aminoindenothienopyridines, e.g.,
I. The indenothienopyridinecarbonitriles underwent heterocyclization with
carbon disulfide in pyridine to give indenopyridinothienopyrimidines,
e.g., II. Most of the synthesized compds. were screened in vitro for
their antimicrobial activities against four species of ***bacteria***
and six species of fungi using chloramphenicol and terbinafine as stds.

IT ***311767-75-6P*** ***952720-95-5P*** ***952720-97-7P***
952720-98-8P ***952720-99-9P***

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant
or reagent)

(prepn., antibacterial and antifungal activity of indenopyridines,
indenothienopyridines, and indenopyridinothienopyrimidines starting
from indandione or (arylidene)indandiones using heterocyclization as
key step)

RN 311767-75-6 CAPLUS

CN 1H-Indeno[1,2-b]pyridine-3-carbonitrile, 2,5-dihydro-5-oxo-4-(2-thienyl)-2-
thioxo- (CA INDEX NAME)

/ Structure 65 in file .gra /

RN 952720-95-5 CAPLUS
CN 5H-Indeno[1,2-b]pyridine-3-carbonitrile, 2-[(cyanomethyl)thio]-5-oxo-4-(2-thienyl)- (CA INDEX NAME)

/ Structure 66 in file .gra /

RN 952720-97-7 CAPLUS
CN 5H-Indeno[1,2-b]pyridine-3-carbonitrile, 5-oxo-2-[(2-oxo-2-phenylethyl)thio]-4-(2-thienyl)- (CA INDEX NAME)

/ Structure 67 in file .gra /

RN 952720-98-8 CAPLUS
CN Acetamide, 2-[[3-cyano-5-oxo-4-(2-thienyl)-5H-indeno[1,2-b]pyridin-2-yl]thio]- (CA INDEX NAME)

/ Structure 68 in file .gra /

RN 952720-99-9 CAPLUS
CN Acetamide, 2-[[3-cyano-5-oxo-4-(2-thienyl)-5H-indeno[1,2-b]pyridin-2-yl]thio]-N-(4-methoxyphenyl)- (CA INDEX NAME)

/ Structure 69 in file .gra /

IT ***952720-93-3P*** ***952720-94-4P***
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn., antibacterial and antifungal activity of indenopyridines, indenothienopyridines, and indenopyridinothienopyrimidines starting from indandione or (arylidene)indandiones using heterocyclization as key step)
RN 952720-93-3 CAPLUS
CN 5H-Indeno[1,2-b]pyridine-3-carbonitrile, 2-(methylthio)-5-oxo-4-(2-thienyl)- (CA INDEX NAME)

/ Structure 70 in file .gra /

RN 952720-94-4 CAPLUS
CN 5H-Indeno[1,2-b]pyridine-3-carbonitrile, 2-(ethylthio)-5-oxo-4-(2-thienyl)- (CA INDEX NAME)

/ Structure 71 in file .gra /

IT ***952720-96-6P***
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn., antibacterial and antifungal activity of indenopyridines, indenothienopyridines, and indenopyridinothienopyrimidines starting from indandione or (arylidene)indandiones using heterocyclization as key step)

RN 952720-96-6 CAPLUS
CN Acetamide, N-(4-chlorophenyl)-2-[[3-cyano-5-oxo-4-(2-thienyl)-5H-indeno[1,2-b]pyridin-2-yl]thio]- (CA INDEX NAME)

/ Structure 72 in file .gra /

IT ***952721-00-5P***
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn., antibacterial and antifungal activity of indenopyridines, indenothienopyridines, and indenopyridinothienopyrimidines starting from indandione or (arylidene)indandiones using heterocyclization as key step)
RN 952721-00-5 CAPLUS
CN 5H-Indeno[1,2-b]pyridine-3-carbonitrile, 5-oxo-2-[(phenylmethyl)thio]-4-(2-thienyl)- (CA INDEX NAME)

/ Structure 73 in file .gra /

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:196524 CAPLUS <<LOGINID::20080908>>
DOCUMENT NUMBER: 147:419384
TITLE: New antimicrobial 9-(p-heterocyclo-substituted anilino)-tetrahydroacridines
AUTHOR(S): Ebeid, M. Y.; Kamel, M. M.; Nofal, Z. M.; Ragab, F.; Zaghary, W. A.; El-Kady, M.
CORPORATE SOURCE: Faculty of Pharmacy, Cairo University, Egypt
SOURCE: Egyptian Journal of Chemistry (2006), 49(2), 277-285
CODEN: EGJCA3; ISSN: 0449-2285
PUBLISHER: National Information and Documentation Centre
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A new series of 9-[p-(4-aryl-3-cyano-2-iminopyridin-6-yl)anilino]-1,2,3,4-tetrahydroacridines and their 2-oxo-(or thioxo)-pyridinylanilino derivs. were synthesized and evaluated against ***bacteria*** and fungi. These compds. showed high significant activity against Saccharomyces cerevisiae, Bacillus subtilis, Staphylococcus aureus, Penicillium notatum, Aspergillus niger, Candida utilis, and Candida albicans.

IT ***951320-46-0P***
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(new antimicrobial 9-(p-heterocyclo-substituted anilino)-tetrahydroacridines)
RN 951320-46-0 CAPLUS
CN 3-Pyridinecarbonitrile, 1,2-dihydro-4-phenyl-6-[4-[(1,2,3,4-tetrahydro-9-acridinyl)amino]phenyl]-2-thioxo- (CA INDEX NAME)

/ Structure 74 in file .gra /

IT ***951320-47-1P*** ***951320-48-2P*** ***951320-49-3P***
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

(new antimicrobial 9-(p-heterocyclo-substituted anilino)-
tetrahydroacridines)
RN 951320-47-1 CAPLUS
CN 3-Pyridinecarbonitrile, 1,2-dihydro-4-(3-methoxyphenyl)-6-[4-[(1,2,3,4-
tetrahydro-9-acridinyl)amino]phenyl]-2-thioxo- (CA INDEX NAME)

/ Structure 75 in file .gra /

RN 951320-48-2 CAPLUS
CN 3-Pyridinecarbonitrile, 4-(3-chlorophenyl)-1,2-dihydro-6-[4-[(1,2,3,4-
tetrahydro-9-acridinyl)amino]phenyl]-2-thioxo- (CA INDEX NAME)

/ Structure 76 in file .gra /

RN 951320-49-3 CAPLUS
CN 3-Pyridinecarbonitrile, 1,2-dihydro-6-[4-[(1,2,3,4-tetrahydro-9-
acridinyl)amino]phenyl]-2-thioxo-4-(2,3,4-trimethoxyphenyl)- (CA INDEX
NAME)

/ Structure 77 in file .gra /

IT ***951320-50-6***
RL: RCT (Reactant); RACT (Reactant or reagent)
(new antimicrobial 9-(p-heterocyclo-substituted anilino)-
tetrahydroacridines)
RN 951320-50-6 CAPLUS
CN 3-Pyridinecarbonitrile, 4-[3-(dimethylamino)phenyl]-1,2-dihydro-6-[4-
[(1,2,3,4-tetrahydro-9-acridinyl)amino]phenyl]-2-thioxo- (CA INDEX NAME)

/ Structure 78 in file .gra /

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2003:971725 CAPLUS <<LOGINID::20080908>>
DOCUMENT NUMBER: 140:35893
TITLE: Transcription factor modulating compounds and methods
of use thereof
INVENTOR(S): Levy, Stuart B.; Alekshun, Michael N.; Podlogar, Brent
L.; Ohemeng, Kwasi; Verma, Atul K.; Warchol, Tadeusz;
Bhatia, Beena
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 301 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20030229065	A1	20031211	US 2002-139591	20020814

CA 2445515	A1	20021104	CA 2002-2445515	20020506
WO 2004001058	A2	20031231	WO 2002-US14255	20020506
WO 2004001058	A3	20050303		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002367953	A1	20040106	AU 2002-367953	20020506
AU 2002367953	B2	20080717		
EP 1524974	A2	20050427	EP 2002-807554	20020506
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2005519998	T	20050707	JP 2004-515557	20020506
US 20050124678	A1	20050609	US 2003-700661	20031103
US 7405235	B2	20080729		
AU 2008203017	A1	20080731	AU 2008-203017	20080708
PRIORITY APPLN. INFO.:				
			US 2001-288660P	P 20010504
			AU 2002-367953	A3 20020506
			WO 2002-US14255	W 20020506
			US 2002-139591	A2 20020814
			US 2002-423319P	P 20021101
			US 2002-425916P	P 20021113
OTHER SOURCE(S): MARPAT 140:35893				
AB	Methods for identifying compd. useful as anti-infectives that decrease resistance, virulence, or growth of microbes are provided. In one embodiment, the method comprises contacting a microbial cell comprising: (1) a selectable marker under the control of a transcription factor responsive element and (2) a transcription factor, with a compd. under conditions which allow interaction of the compd. with the microbial cell; and measuring the ability of the compd. to affect the growth or survival of the microbial cell as an indication of whether the test compd. modulates the activity of a transcription factor.			
IT	***221179-01-7*** ***299198-34-8***			
	RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)			
	(transcription factor modulating compds. as anti-infectives agents that decrease resistance and virulence and growth identified by detg. marker under control of responsive element)			
RN	221179-01-7 CAPLUS			
CN	3,5-Pyridinedicarbonitrile, 2-amino-4-(4-hydroxyphenyl)-6-[[2-oxo-2-(2-oxo-2H-1-benzopyran-3-yl)ethyl]thio]- (CA INDEX NAME)			
/ Structure 79 in file .gra /				
RN	299198-34-8 CAPLUS			
CN	3-Pyridinecarbonitrile, 2-[(2-cyclopropyl-2-oxoethyl)thio]-6-(2-thienyl)-4-(trifluoromethyl)- (CA INDEX NAME)			
/ Structure 80 in file .gra /				

L17 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:912358 CAPLUS <<LOGINID::20080908>>
DOCUMENT NUMBER: 139:381381
TITLE: Preparation of antibacterial pyridinedicarbonitriles
INVENTOR(S): Grant, Richard; Latham, Christopher J.; Thomson, Samantha; Zhao, Lihua
PATENT ASSIGNEE(S): Pantherix Ltd., UK
SOURCE: Brit. UK Pat. Appl., 18 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
GB 2388593	A	20031119	GB 2002-10898	20020513
PRIORITY APPLN. INFO.:			GB 2002-10898	20020513
OTHER SOURCE(S):	MARPAT 139:381381			

GI

/ Structure 81 in file .gra /

AB The title compds. [I; n = 0-2; R1 = H, alkyl, CN, aryl, etc.] which have antibacterial activity, esp. against gram pos. ***bacteria***, were prepd. Thus, reacting 2-amino-3,5-dicyano-6-mercaptopyridine with 2-chloro-N-(2,5-dimethylphenyl)acetamide in the presence of K2CO3 in DMF afforded 19% I [n = 0; R1 = 2,5-Me2C6H3] which showed IC50 in the range of 1-50 .mu.M against isolated Streptococcus pneumoniae chorismate synthase. Pharmaceutical compn. comprising the compd. I is claimed.

IT ***298216-30-5P*** ***303065-59-0P*** ***303065-61-4P***
303065-63-6P ***311314-38-2P*** ***311314-61-1P***
311332-03-3P ***311789-13-6P*** ***311795-13-8P***
312318-88-0P ***312509-66-3P*** ***312513-87-4P***
312513-88-5P ***318258-92-3P*** ***329206-96-4P***
331421-74-0P ***331966-90-6P*** ***331966-91-7P***
331966-98-4P ***332114-15-5P*** ***337918-65-7P***
337918-66-8P ***337926-03-1P***, Acetamide, N,N'-(9H-fluoren-

9-

ylidenedi-4,1-phenylene)bis[2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-
339153-44-5P ***339576-16-8P*** ***339584-40-6P***
348146-19-0P ***348580-92-7P*** ***348581-11-3P***
356589-29-2P ***356589-40-7P*** ***356589-45-2P***
356589-52-1P ***356589-54-3P*** ***356589-62-3P***
356589-71-4P ***400864-06-4P*** ***625109-52-6P***

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of antibacterial pyridinedicarbonitriles)

RN 298216-30-5 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(2-cyanophenyl)-
(CA INDEX NAME)

/ Structure 82 in file .gra /

RN 303065-59-0 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(2,6-dimethylphenyl)- (CA INDEX NAME)

/ Structure 83 in file .gra /

RN 303065-61-4 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(2-methylphenyl)- (CA INDEX NAME)

/ Structure 84 in file .gra /

RN 303065-63-6 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(3-methylphenyl)- (CA INDEX NAME)

/ Structure 85 in file .gra /

RN 311314-38-2 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(2-bromophenyl)- (CA INDEX NAME)

/ Structure 86 in file .gra /

RN 311314-61-1 CAPLUS

CN Acetamide, N,N'-(3,3'-dimethoxy[1,1'-biphenyl]-4,4'-diyl)bis[2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]- (9CI) (CA INDEX NAME)

/ Structure 87 in file .gra /

RN 311332-03-3 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(3-methoxyphenyl)- (CA INDEX NAME)

/ Structure 88 in file .gra /

RN 311789-13-6 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N,N-diphenyl- (CA INDEX NAME)

/ Structure 89 in file .gra /

RN 311795-13-8 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

/ Structure 90 in file .gra /

RN 312318-88-0 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(4-butoxyphenyl)-
(CA INDEX NAME)

/ Structure 91 in file .gra /

RN 312509-66-3 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(2,5-
dimethylphenyl)- (CA INDEX NAME)

/ Structure 92 in file .gra /

RN 312513-87-4 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(2-ethoxyphenyl)-
(CA INDEX NAME)

/ Structure 93 in file .gra /

RN 312513-88-5 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(4-ethoxyphenyl)-
(CA INDEX NAME)

/ Structure 94 in file .gra /

RN 318258-92-3 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-phenyl- (CA INDEX
NAME)

/ Structure 95 in file .gra /

RN 329206-96-4 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(4-bromophenyl)-
(CA INDEX NAME)

/ Structure 96 in file .gra /

RN 331421-74-0 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(4-cyanophenyl)-
(CA INDEX NAME)

/ Structure 97 in file .gra /

RN 331966-90-6 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(4-methoxyphenyl)-
(CA INDEX NAME)

/ Structure 98 in file .gra /

RN 331966-91-7 CAPLUS
CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(2-methoxyphenyl)-
(CA INDEX NAME)

/ Structure 99 in file .gra /

RN 331966-98-4 CAPLUS
CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(2-fluorophenyl)-
(CA INDEX NAME)

/ Structure 100 in file .gra /

RN 332114-15-5 CAPLUS
CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-[4-(aminosulfonyl)phenyl]- (CA INDEX NAME)

/ Structure 101 in file .gra /

RN 337918-65-7 CAPLUS
CN Acetamide, N,N'-1,4-phenylenebis[2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-
(CA INDEX NAME)

/ Structure 102 in file .gra /

RN 337918-66-8 CAPLUS
CN Acetamide, N,N'-(2-chloro-1,4-phenylene)bis[2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]- (CA INDEX NAME)

/ Structure 103 in file .gra /

RN 337926-03-1 CAPLUS
CN Acetamide, N,N'-(9H-fluoren-9-ylidenedi-4,1-phenylene)bis[2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]- (9CI) (CA INDEX NAME)

/ Structure 104 in file .gra /

RN 339153-44-5 CAPLUS
CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(4-chlorophenyl)-
(CA INDEX NAME)

/ Structure 105 in file .gra /

RN 339576-16-8 CAPLUS
CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(4-methylphenyl)-
(CA INDEX NAME)

/ Structure 106 in file .gra /

RN 339584-40-6 CAPLUS
CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(4-methoxy-2-nitrophenyl)- (CA INDEX NAME)

/ Structure 107 in file .gra /

RN 348146-19-0 CAPLUS
CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-[4-[(2-thiazolylamino)sulfonyl]phenyl]- (CA INDEX NAME)

/ Structure 108 in file .gra /

RN 348580-92-7 CAPLUS
CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(3,4-dichlorophenyl)- (CA INDEX NAME)

/ Structure 109 in file .gra /

RN 348581-11-3 CAPLUS
CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(2,6-dichlorophenyl)- (CA INDEX NAME)

/ Structure 110 in file .gra /

RN 356589-29-2 CAPLUS
CN Acetamide, N-[4-(acetylamino)phenyl]-2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]- (CA INDEX NAME)

/ Structure 111 in file .gra /

RN 356589-40-7 CAPLUS
CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-[4-(methylthio)phenyl]- (CA INDEX NAME)

/ Structure 112 in file .gra /

RN 356589-45-2 CAPLUS
CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(9,10-dihydro-9,10-dioxo-2-anthracenyl)- (CA INDEX NAME)

/ Structure 113 in file .gra /

RN 356589-52-1 CAPLUS
CN Benzoic acid, 4-[[2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]acetyl]amino]- (CA INDEX NAME)

/ Structure 114 in file .gra /

RN 356589-54-3 CAPLUS

CN Benzoic acid, 3-[[2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]acetyl]amino]-
(CA INDEX NAME)

/ Structure 115 in file .gra /

RN 356589-62-3 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-[2-chloro-5-(trifluoromethyl)phenyl]- (CA INDEX NAME)

/ Structure 116 in file .gra /

RN 356589-71-4 CAPLUS

CN Benzoic acid, 5-[[2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]acetyl]amino]-2-chloro- (CA INDEX NAME)

/ Structure 117 in file .gra /

RN 400864-06-4 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-2-naphthalenyl-
(CA INDEX NAME)

/ Structure 118 in file .gra /

RN 625109-52-6 CAPLUS

CN Acetamide, 2-[(6-amino-3,5-dicyano-2-pyridinyl)thio]-N-(3,4-dimethylphenyl)- (CA INDEX NAME)

/ Structure 119 in file .gra /

IT ***111971-56-3***

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of antibacterial pyridinedicarbonitriles)

RN 111971-56-3 CAPLUS

CN 3,5-Pyridinedicarbonitrile, 6-amino-1,2-dihydro-2-thioxo- (CA INDEX NAME)

/ Structure 120 in file .gra /

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:145365 CAPLUS <<LOGINID::20080908>>

DOCUMENT NUMBER: 139:270296

TITLE: Novel 4-aminopyrimido[4,5-b]quinoline derivatives as
potential antimicrobial agents

AUTHOR(S): El-Sayed, Ola A.; El-Bieh, Fatma M.; El-Aqeel, Shada
I.; Al-Bassam, Badr A.; Hussein, Maher E.

CORPORATE SOURCE: Pharmaceutical Chemistry Department, Faculty of
Pharmacy, University of Alexandria, Alexandria, 21521,
Egypt

SOURCE: Bollettino Chimico Farmaceutico (2002), 141(6),

461-465
CODEN: BCFAAI; ISSN: 0006-6648
PUBLISHER: Societa Editoriale Farmaceutica
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

/ Structure 121 in file .gra /

AB Two series of 4-aminopyrimido[4,5-b]quinoline derivs. substituted in the 2-position , e.g. I, and/or in 1-position, e.g. II, have been prepd. by facile routes starting from 2-amino-3-cyanoquinoline 2,2-chloro-3-cyanoquinoline, and 2-arylamino-3-cyanoquinolines. The reactions involved simple fusion with thiourea or urea and, in some cases, with guanidine. The prepd. compds. were in vitro tested for antimicrobial activities against some selected Gram-pos., Gram-neg. ***bacteria*** and fungi. Products contg. the thio-function were the most active followed by those contg. the imino-function while the carbonyl contg. derivs. were without significant antimicrobial effect.

IT ***69513-35-5P***

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and properties of)

RN 69513-35-5 CAPLUS

CN 3-Quinolinecarbonitrile, 1,2-dihydro-2-thioxo- (CA INDEX NAME)

/ Structure 122 in file .gra /

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:221628 CAPLUS <<LOGINID::20080908>>

DOCUMENT NUMBER: 130:325083

TITLE: Synthesis and antimicrobial activity of some new 4-methylquinolines

AUTHOR(S): Kamel, M. M.; Fathala, O. A.; Abdou, W. A. M.; Haiba, M. E.

CORPORATE SOURCE: Medicinal Chemistry Department, National Research Centre, Cairo, Egypt

SOURCE: Proceedings of the Pakistan Academy of Sciences (1997), 34(1), 7-11

CODEN: PKSPAW; ISSN: 0377-2969

PUBLISHER: Pakistan Academy of Sciences

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Some new 4,8-dimethyl-2-[p-(3-cyano-2-thioxo-4-arylpyridine-6-yl)]anilinoquinolines and 7-chloro-4-methyl-2-(4-hydroxy)anilinoquinoline Mannich bases were synthesized for the purpose of antimicrobial evaluation against ***bacteria*** , yeast, and fungi. Two compds. showed activity against these microorganisms.

IT ***218272-67-4P*** ***218272-68-5P*** ***218272-69-6P***
218272-70-9P ***223697-02-7P***

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of methylquinolines as antibacterial and antifungal agents)
RN 218272-67-4 CAPLUS
CN 3-Pyridinecarbonitrile, 6-[4-[(4,8-dimethyl-2-quinolinyl)amino]phenyl]-1,2-dihydro-4-(4-methoxyphenyl)-2-thioxo- (CA INDEX NAME)

/ Structure 123 in file .gra /

RN 218272-68-5 CAPLUS
CN 3-Pyridinecarbonitrile, 4-[4-(dimethylamino)phenyl]-6-[4-[(4,8-dimethyl-2-quinolinyl)amino]phenyl]-1,2-dihydro-2-thioxo- (CA INDEX NAME)

/ Structure 124 in file .gra /

RN 218272-69-6 CAPLUS
CN 3-Pyridinecarbonitrile, 6-[4-[(4,8-dimethyl-2-quinolinyl)amino]phenyl]-1,2-dihydro-4-(3-methoxy-2-nitrophenyl)-2-thioxo- (CA INDEX NAME)

/ Structure 125 in file .gra /

RN 218272-70-9 CAPLUS
CN 3-Pyridinecarbonitrile, 6-[4-[(4,8-dimethyl-2-quinolinyl)amino]phenyl]-1,2-dihydro-4-(2-thienyl)-2-thioxo- (CA INDEX NAME)

/ Structure 126 in file .gra /

RN 223697-02-7 CAPLUS
CN 3-Pyridinecarbonitrile, 6-[4-[(7-chloro-4-methyl-2-quinolinyl)amino]phenyl]-1,2-dihydro-4-(4-methoxyphenyl)-2-thioxo- (CA INDEX NAME)

/ Structure 127 in file .gra /

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1998:702455 CAPLUS <<LOGINID::20080908>>
DOCUMENT NUMBER: 130:66375
TITLE: Synthesis of some new 4-methylquinolines of possible biological activity
AUTHOR(S): Kamel, M. M.; Fathalla, O. A.; Abdou, W. A. M.; Omer, M. T.; Haiba, M. E.
CORPORATE SOURCE: Medicinal Chemistry Department, National Research Centre, Cairo, Egypt
SOURCE: Egyptian Journal of Pharmaceutical Sciences (1998), Volume Date 1997, 38(1-3), 79-86
CODEN: EJPSBZ; ISSN: 0301-5068
PUBLISHER: National Information and Documentation Centre
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Some new 4,8-dimethyl-2-[p-(3-cyano-2-thioxo-4-arylpyridin-6-

yl)]anilinoquinolines and 7-chloro-4-methyl-2-(4-hydroxy)anilinoquinolines Mannich bases were synthesized for the purpose of antimicrobial evaluation against ***bacteria***, yeast, and fungi. 7-Chloro-4-methyl-2-[4-hydroxy-3,5-di(diethylaminomethyl)]anilinoquinoline showed fungicidal activity against *Aspergillus niger*.

IT ***218272-67-4P*** ***218272-68-5P*** ***218272-69-6P***
218272-70-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis and antimicrobial activity of 4-methylquinolines)
RN 218272-67-4 CAPLUS
CN 3-Pyridinecarbonitrile, 6-[4-[(4,8-dimethyl-2-quinolinyl)amino]phenyl]-1,2-dihydro-4-(4-methoxyphenyl)-2-thioxo- (CA INDEX NAME)

/ Structure 128 in file .gra /

RN 218272-68-5 CAPLUS
CN 3-Pyridinecarbonitrile, 4-[4-(dimethylamino)phenyl]-6-[4-[(4,8-dimethyl-2-quinolinyl)amino]phenyl]-1,2-dihydro-2-thioxo- (CA INDEX NAME)

/ Structure 129 in file .gra /

RN 218272-69-6 CAPLUS
CN 3-Pyridinecarbonitrile, 6-[4-[(4,8-dimethyl-2-quinolinyl)amino]phenyl]-1,2-dihydro-4-(3-methoxy-2-nitrophenyl)-2-thioxo- (CA INDEX NAME)

/ Structure 130 in file .gra /

RN 218272-70-9 CAPLUS
CN 3-Pyridinecarbonitrile, 6-[4-[(4,8-dimethyl-2-quinolinyl)amino]phenyl]-1,2-dihydro-4-(2-thienyl)-2-thioxo- (CA INDEX NAME)

/ Structure 131 in file .gra /

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:702449 CAPLUS <<LOGINID::20080908>>

DOCUMENT NUMBER: 130:81446

TITLE: Synthesis of some new indole derivatives of possible antimicrobial activity

AUTHOR(S): Fahmy, H. H.; Kassem, E. M. M.; Abdou, W. A. M.; Mahmoud, S. A.

CORPORATE SOURCE: Department of Medicinal Chemistry, National Research Centre, Cairo, Egypt

SOURCE: Egyptian Journal of Pharmaceutical Sciences (1998), Volume Date 1997, 38(1-3), 13-22
CODEN: EJPSBZ; ISSN: 0301-5068

PUBLISHER: National Information and Documentation Centre

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A series of indolyl arylidene hydrazones, indolylamidothiazolidin-4-ones, pyrazoline and pyrazolidindione derivs., 3-(3-cyano-4-aryl-2-imino-(1H)-

IT	***218784-55-5P***	***218784-56-6P***	***218784-57-7P***
	218784-58-8P	***218784-59-9P***	
	RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)		
	(synthesis of new indole derivs. of possible antimicrobial activity)		
RN	218784-55-5 CAPLUS		
CN	3-Pyridinecarbonitrile, 1,2-dihydro-6-(1H-indol-3-yl)-4-phenyl-2-thioxo-		
	(CA INDEX NAME)		

RN	218784-56-6	CAPLUS
CN	3-Pyridinecarbonitrile, 1,2-dihydro-6-(1H-indol-3-yl)-4-(4-methoxyphenyl)-2-thioxo- (CA INDEX NAME)	

RN 218784-57-7 CAPLUS
CN 3-Pyridinecarbonitrile, 4-(4-chlorophenyl)-1,2-dihydro-6-(1H-indol-3-yl)-2-thioxo- (CA INDEX NAME)

RN	218784-58-8	CAPLUS
CN	3-Pyridinecarbonitrile, 4-[4-(dimethylamino)phenyl]-1,2-dihydro-6-(1H-indol-3-yl)-2-thioxo- (CA INDEX NAME)	

RN	218784-59-9	CAPLUS
CN	3-Pyridinecarbonitrile, 1,2-dihydro-6-(1H-indol-3-yl)-2-thioxo-4-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)	

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1994:134144 CAPLUS <<LOGINID::20080908>>
DOCUMENT NUMBER: 120:134144
ORIGINAL REFERENCE NO.: 120:23615a,23618a
TITLE: Preparation of cephalosporin derivatives as
antibacterial agents
INVENTOR(S): Tanaka, Kyoshi; Sutani, Mineichi; Komatsu, Miwako;
Tsuchida, Keiichi; Saito, Akito; Hayashi, Kazuya;
Kanna, Hiroshi; Yonezawa, Kenji; Minami, Shinzaburo;

Watanabe, Yasuo
 PATENT ASSIGNEE(S): Toyama Chemical Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 05202065	A	19930810	JP 1991-311552	19911031
JP 05262777	A	19931012	JP 1991-343936	19911202
JP 3141041	B2	20010305		
PRIORITY APPLN. INFO.:			JP 1991-311552	A1 19911031
OTHER SOURCE(S):	MARPAT 120:134144			
GI				

/ Structure 137 in file .gra /

AB The title .beta.-lactams [I; R1 = (un)protected NH2; R2 = (cyano-, carbamoyl-, or halo-substituted) alkyl, alkenyl, alkynyl, or cycloalkyl; R3 = (un)protected CO2H, CO2-; R4 = H, (un)protected NH2; A = CH, CX; X = halo; B = bond, CH2NH, alkylene or O-lower alkylene optionally substituted with (un)protected hydroxy; D = NR5R6; R5 = H, H2N-protecting group; R6 = H, (cyano-, carbamoyl-, or halo-substituted) alkyl, alkenyl, aryl, or cycloalkyl; B-D = (halo)alkoxy; n = 0,1], having potent antibacterial activity against gram pos. ***bacteria*** including methicillin-resistant Staphylococcus aureus strains, are prepd. Thus, quaternization of 3-tert-butoxycarbonylaminothieno[2,3-b]pyridine by p-methoxybenzyl 3-iodomethyl-7-[(Z)-2-methoxyimino-2-(2-tritylaminothiazol-4-yl)acetamido]-3-cephem-4-carboxylate in DMF at room temp. followed by deprotection with CF3CO2H in anisole gave 7-[2-(2-aminothiazol-4-yl)-(Z)-2-methoxyiminoacetamido]-3-(3-amino-7-thieno[2,3-b]pyridinio)methyl-3-cephem-4-carboxylate (II). II showed min. inhibitory concn. of 1.56, 12.5, .1 to req. 0.1, and 1.56 .mu.g/mL against .beta.-lactamase-producing Staphylococcus aureus F-137, methicillin-resistant S. aureus F-597, Escherichia coli NIHJ JC-2, and Pseudomonas aeruginosa IFO 3445, resp. A total of 32 I were prepd.

IT ***152939-11-2P*** ***152939-12-3P***
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as intermediate for antibacterial cephalosporin deriv.)
 RN 152939-11-2 CAPLUS
 CN Acetic acid, 2-[(3-cyano-5-nitro-2-pyridinyl)thio]-, methyl ester (CA INDEX NAME)

/ Structure 138 in file .gra /

RN 152939-12-3 CAPLUS
 CN Acetic acid, 2-[(5-amino-3-cyano-2-pyridinyl)thio]-, methyl ester (CA INDEX NAME)

/ Structure 139 in file .gra /

L17 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1986:514821 CAPLUS <<LOGINID::20080908>>
DOCUMENT NUMBER: 105:114821
ORIGINAL REFERENCE NO.: 105:18579a,18582a
TITLE: 2-(2-Aminothiazol-4-yl)-2-alkoxyiminoacetic acid
derivatives substituted on the oxime
INVENTOR(S): Heymes, Rene; Vignau, Michel
PATENT ASSIGNEE(S): Roussel-UCLAF, Fr.
SOURCE: Fr. Demande, 66 pp. Addn. to Fr. Demande Appl. No. 78
09617.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
FR 2553770	A2	19850426	FR 1983-16698	19831020
FR 2553770	B2	19860314		
FR 2438050	A2	19800430	FR 1978-24563	19780824
FR 2438050	B2	19830415		
AT 8100043	A	19821115	AT 1981-43	19810108
AT 371472	B	19830627		
US 4439433	A	19840327	US 1981-267638	19810527
GB 2101117	A	19830112	GB 1981-34540	19811117
GB 2101117	B	19830602		
CH 642648	A5	19840430	CH 1983-1949	19830411
PRIORITY APPLN. INFO.:			FR 1978-24563	19780824
			FR 1978-9617	A 19780331
			AT 1979-2403	A 19790330
			CH 1979-3008	A 19790330
			GB 1979-11275	A 19790330
			US 1979-25666	A3 19790330
OTHER SOURCE(S):		CASREACT 105:114821; MARPAT 105:114821		
GI				

/ Structure 140 in file .gra /

AB 2-(2-Aminothiazol-4-yl)-2-alkoxyiminoacetic acid derivs. I [R = CXR2 (X = O, S; R2 = alkyl, alkoxy, Ph, substituted amino, substituted carboxyl, etc.); R1 = Cl, OMe, alkyl, cycloalkyl, alkylthio, acetoxymethyl, carbamoyloxymethyl, etc.; A = H, alk. metal, alk. earth metal, etc.], having good activity against gram-pos. ***bacteria*** (for example, the MIC for penicillin-resistant Staphylococcus was 1.mu.g/mL after 24 and 48 h), are prepd. Thus, syn-2-[(2-bromoethoxy)imino]-2-(2-tritylaminothiazol-4-yl)acetic acid [prepd. in 2 steps from Et 2-hydroxyimino-2-(2-tritylamino-4-thiazolyl)acetate-HCl] was acylated with tert-Bu 7-aminocephalosporanate to give tert-Bu 3-acetoxymethyl-7-[[2-(2-tritylaminothiazol-4-yl)-2-[2-bromoethoxy)imino]acetyl]amino]ceph-3-em-4-carboxylate (II). II was then deprotected and converted to the trifluoroacetate of syn-3-acetoxymethyl-7-[[2-(2-aminothiazol-4-yl)-2-[(2-bromoethoxy)imino]acetyl]amino]ceph-3-em-4-carboxylic acid.

IT ***72697-85-9P***
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. and deblocking of)
 RN 72697-85-9 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 3-[(acetyloxy)methyl]-7-[[[2-[(3-cyano-6-methyl-2-
 pyridinyl)thio]ethoxy]imino][2-[(triphenylmethyl)amino]-4-
 thiazolyl]acetyl]amino]-8-oxo-, [6R-[6.alpha.,7.beta.(Z)]]- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.

/ Structure 141 in file .gra /

IT ***72697-31-5P*** ***72697-32-6P***
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); SPN (Synthetic preparation); BIOL (Biological
 study); PREP (Preparation)
 (prepn. of, as antibiotic)
 RN 72697-31-5 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 3-[(acetyloxy)methyl]-7-[[2-amino-4-thiazolyl][2-[(3-cyano-6-methyl-2-
 pyridinyl)thio]ethoxy]imino]acetyl]amino]-8-oxo-, [6R-
 [6.alpha.,7.beta.(Z)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.

/ Structure 142 in file .gra /

RN 72697-32-6 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 3-[(acetyloxy)methyl]-7-[[2-amino-4-thiazolyl][2-[(3-cyano-6-methyl-2-
 pyridinyl)thio]ethoxy]imino]acetyl]amino]-8-oxo-, monosodium salt,
 [6R-[6.alpha.,7.beta.(Z)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.

/ Structure 143 in file .gra /

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
69.27	1015.36

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-8.80	-15.20

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